67311

SOV/181-1-8-16/32 Investigation of 0.5- to 16-kev Electron Penetration Through Collodion- and Gold Films

> 100-150 ev) and fast (from 100-150 ev and above) electrons. In all cases of primary electron energy and sample thickness the slow electrons form a considerable part of the total number of departed electrons. Slowing down and scattering of fast and slow electrons follow various laws. The law of energy loss by fast electrons reads dE/d: = const. Thus, the law of primaryelectron slowing-down in gold is linear, at least in a certain & interval of electron energies and film thicknesses. The authors thank A. R. Shul'man, in whose laboratory the present investigation was performed, and also the student Yu. M. Vorom who assisted in the measurements. There are 11 figures and 14 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina

(Leningrad Polytechnic Institute imeni M. I. Kalinin)

SUBMITTED:

August 18, 1958

Card 2/2

87457

S/057/60/030/012/004/011 B019/B056

26,2311

AUTHORS:

TITLE:

Burtsev, V. A., Stolov, A. M., Shakhov, V. V.

Measurement of the Energy Flux Emitted by Plasma in

"Al'fa" Research Installation

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,

pp. 1415 - 1421

TEXT: For measuring the energy emitted from the walls of the discharge chamber, a spherical black body with a low thermal capacity and an absorption coefficient of nearly unity was used. By means of this black body only measurements of the total energy emission could be made, because its time lag was too great. For measuring the time dependence of the energy fluxes, a plane pickup (hismain thermocouple) was used. The signals of the two pickaps were made visible by an oscilloscope. The measurements showed that the apparatus used here records not only that part of the energy which is introduced into the plasma. It is assumed that by arc discharges a considerable part of energy is liberated by local emissions, and also a loss occurs as a result of oscillations of

Card 1/3

Measurement of the Energy Flux Emitted by Plasma in "Al'fa" Research Installation

87457 s/057/60/030/012/004/011 B019/B056

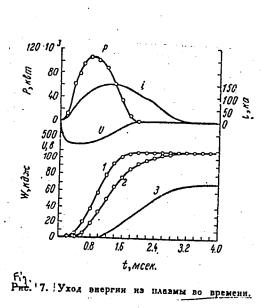
the magnetic field of discharge. The recorded energy emission practically begins with a considerable lag relative to the beginning of discharge. The authors thank B. P. Konstantinov for the suggestion to use a black body for the measurements, and they also thank L. M. Andrezen and L. I. Zantova of the chemical laboratory for their help in producing the pickups. There are 7 figures and 4 Soviet references.

ASSOCIATION: Nauchno-issledovatel skiy institut elektrofizicheskoy apparatury (Scientific Research Institute of Electrophysical Apparatus)

SUBMITTED:

July 15, 1960

Card 2/3



87457

\$/057/60/030/012/004/011 B019/B056

Legend to Fig.7: P total power, i total current in plasma, U bypass voltage, 1 total energy introduced into plasma, 2 total energy calculated from magnetic field energy, 3 measured energy.

 $\bigvee_{i \in I}$

13

3.5

Card 3/3

ACC NR.AP6032121 (A, N) SOURCE CODE: UR/0346/66/000/010/0036/0038

AUTHOR: Chernyshev, V. V.; Burtsev, V. I.; Kushnir, A. T.; Orlov, V. A.

ORG: none

TITLE: Immunity to plague in weaned piglets vaccinated with an avirulent, dry, vaccine aerosol

SOURCE: Veterinariya, no. 10, 1966, 36-38

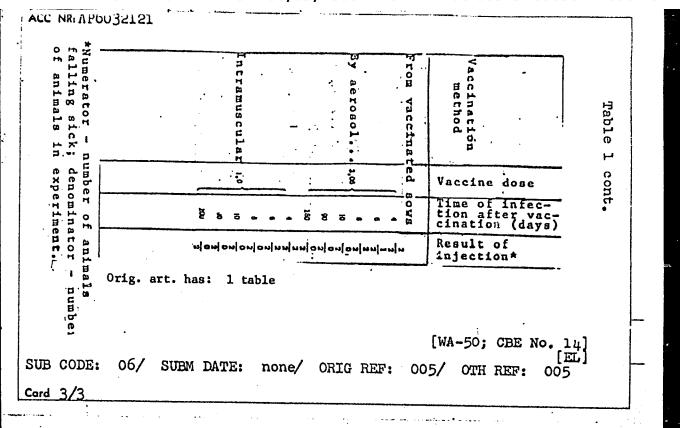
TOPIC TAGS: immunity, plague, pig, biologic aerosol, veterinary medicine, vaccine

The time required for vaccination to produce errective immunity, and the duration of immunity, were studied in piglets vaccinated against plague with an avirulent, dry, viral vaccine in aerosol. Healthy, two-month-old, weaned piglets, taken from both vaccinated and nonvaccinated sows, were used. Table 1 shows the results of the attempt to infect piglets, some of which were vaccinated by aerosol and some intramuscularly, with plague. The experimental data showed that by far less vaccine is required for aerosol than for intramuscular vaccination, and that immunity develops after, and is effective for, approximately the same periods with both methods. The authors suggest that wide application of this efficient method will save

Cord 1/3 considerable time for yeterinary workers. UDC: 619:616.988.75-0971:636.4

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"APPROVED FOR RELEASE: 06/09/2000 CIA-RDP86-00513R000307710007-6



Broadening engineering potentialities of machine tools.

Mashinostroitel' no.10:25 0 '61. (MIRA 14:9)

(Machine tools)

ZHAVORONKOVA, L.Yu.; BURTSEV, V.I.

Characteristics of the clinical course of peptic ulter in elderly persons. Sov. med. 28 no.6:52-57 Je '65. (MLRA 18:6)

1. Kafedra fakul'tetskoy terapii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

ARKHIFOV, No.1., MRTSKV, V.I., PICHUGIN, L.M.

Tumunomorphological reactions in swine vaccinated against foot-and-mouth disease. Vaterinariia 42 no.5:37-39 My '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut veterinarnoy virusologii i mikrobiologii.

T 19005-63 BDS/ENT(d)/EEC(b)-2 Pg-4/Pk-4/P1-4/Pm-4/Po-4/Pq-4 BC

AFFTC/ASD/ESD-3/RADC/APGC/IJP(C)

ACCESSION NR: AP3002488

\$/0119/63/000/006/0010/0014

XB

AUTHOR: Burtsev, V. K.; Svecharnik, D. V.

TITLE: Reliability and effectiveness of automatic control and regulation systems

SOURCE: Priborostroyeniye, no. 6, 1963, 10-14

TOPIC TAGS: reliability, effectiveness, automatic control, automatic regulation

ABSTRACT: Suggestions for evaluating reliability and effectiveness of automaticcontrol equipment and systems are made. This formula is offered for computing the effectiveness

$$E = \frac{Bt - C_c - C_c}{Bt}$$

where B is the system productivity in rubles/year, C_c is the cost of developing and operating the system, C_t is loss caused by the system failure to operate, t is time of operation. The ratio T/T_0 , where T is the average time between two consecutive failures of the system and T_0 is same of a "standard" system, is said to be "a measure of progress in increasing the reliability. "A system-cost vs.

Card 1/2

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	reliability curve is developed with a outages, time of restoration of operaness are analyzed. An example is give control system including a transistoring art. has: 4 figures, 18 formula	ability, and their influence of computing reliabilities of amplifier; Poisson	ence on the effective ity of an automatic-	9-
	ASSOCIATION: none			1
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BURTSEV, V.M.; KAKHANCVICH, T.M.; KUBASSKIY, S.I.; LAPSHIN, P.V.; REYZNER, Yu.B., nauchnyy red.; TYUTYUNIK, M.S., red. izd-va; MOCHALINA, Z.S., tekhn. red.

[Automation of the grinding and calcination of gypsum] Opyt avtomatizatsii pomola i varki gipsa. Moskva, Gosstroiizdat, 1962. 59 p. (MIRA 15:7)

SHIFRIN, S.M., doktor takhn. mauk (Laningrad); BURTSEV, V.P., insh. (Laningrad)

Parification of maste waters of cheese factories. Vod. i san. tekh. no.10:30-32 0 65. (MIRA 18:11)

BURTSEV, V.S.

Consumers' cooperatives for new collective farm settlements. Sel'. stroi. 12 no.11:24 N '57. (MIRA 10:11)

1. Nachal'nik "Rosglavkoopkhoztorga" Rospotrebsoyuza. (Cooperative societies)

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	and Penetrability	The Effect of H	' <u>. Samerin</u> . Investigation of the Vacuum by Means of a Mass Spectrometer	Destruation of Monmetallic Inc	Samarin. Desulfurisation of Molten	Eastitute of Iron Metallurry in Carbon Steel	hoslovsk People's Rapublic, Fla	g. Chasev, Li. Tedar, N.G. Chi- reatment of Holtan Transf L. L.S. Klimasako, P.S. Plakha A. Mironov participated in the a. Hmydo Investigation of Ve	. Endinor. The Effect of Facul Try of Saints tead (the work of Ling cheatly institut (Despro The prospetated. (Campropo with the participation of eng Johor, L.U. Barath, A.N. Man Leading, Valurioh and G.P. Par Leading and C.P. Par	g, Han Inc-yes, F.L. Dutility.ey: oring the Quality of Alloyed St "Some Theorytical and Tractical"	he Effect of Vacuum Treatment i etional Steel	be Effect of Vecum Treatment in Ladle	urin. Vacuum Treatment of Bessemen	ENG OF SIZZI TAD TITOIZ	on steal service of operation and degase ction processes in vaccina, and degase capacitally a paper and equipment, expectably as a late analysed. Personalities the articles and will appear in the or translated from English. Some of the translated from Translated (in a Lealle) count of the Order Landsons	of vacuum steelmaking practic	Member, Academy of Sciences us wh. Ed.: 5.6, Markovich.	Institut metallurgii imemi A	of Vacuum in Matallurgy Noncow, Ind-vo	-khimicheskim osnovam proisvod		

\$/030/60/000/010/017/018 B021/B058

AUTHOR:

Burtsev, V. T., Engineer

TITLE:

Using Vacuum in Metallurgy

PERIODICAL:

Vestnik Akademii nauk SSSR, 1960, No. 10, pp. 114 - 115

The Third Conference on Using Vacuum in Metallurgy was held by the Institut metallurgii im. A. A. Baykova Akademii nauk SSSR (Institute of Metallurgy imeni A. A. Baykov of the Academy of Sciences USSR) from June 28 to July 2, 1960. Delegates from academic and scientific research- and branch institutes, colleges and metallurgical plants attended. The majority of the reports dealt with studies connected with industrial melting of steel and thermally stable alloys in induction- and electric-arc vacuum furnaces.

Electric-arc vacuum remelting being increasingly used at present. The following lectures were delivered: S. A. Leyben on. on investigations in the furnace with a capacity of from 400 to 430 kg. the remolten steel of type LilX:5 $(\underline{ShKh^{15}})_{4}$ being specially mentioned;

Card 1/2

Using Vacuum in Metallurgy

\$/030/60/000/010/017/018 BO2:/BO58

S. F. Burlakov and G. P. Bestsennyy, on automaticn of the melting of alloys in electric-arc vacuum furnaces; S. P. Zamotayev, on the successful use of the vacuum for the casting of large ingots at the Ural'skiy mashinostroitel nyy zavod (Ural Machine Construction Plant); A. M. Samarin, on prospects for using the vacuum in metallingv. Results of production scale experiments on precision casting of heatresistant alloys and stainless steel were given; vacuum degassing of steel in the ladle, vacuum and inert atmosphere casting, application of vacuum in nonferrous metallurgy to obtain tellurium, selenium, boron, and tin were also the subject of discussion. Reports were delivered on new vacuum furnaces, design, construction, and operation of vacuum rolling mills, and on laboratory equipment for the study of metals in vacuum at temperatures up to 1200°C. Finally the author states that the Conference was as useful for scientists in the field of metallurgy as for plant experts. Before the Conference, two weeks' courses on vacuum metallurgy were held for collaborators of metallurgical plants and scientific research institutes. These courses are described as being very useful for the engineering- and technical personnel of metallurgical plants.

Card 2/2

Physicochemical bases of steel production. Vest. AN SSSR 31 no.10:138-140 0 '61. (MIRA 14:9)

BURTSEV, V.T. (Moskva); KARASEV, R.A. (Moskva); SAMARIN, A.M. (Moskva)

Sulfur vapor pressure in contact with iron - sulfur melts. Izv.
AN SSSR. Otd. tekh. nauk. Met. i topl. no.2:42-48 Mr-Ap '62.

(MIRA 15:4)

(Vapor pressure--Measurement) (Desulfuration)

BURTSEV, V. T. (Moskva); KARASEV, R. A. (Moskva); SAMARIN, A. M. (Moskva)

Mechanism of evaporation and the pressure of sulfur vapors on iron-carbon-sulfur melts. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.6:32-36 N-D '62. (MIRA 16:1)

(Desulfuration) (Iron-Metallurgy) (Vapor pressure)

BURTSEV, V.T.; SAMARIN, A.M.

Pressure of saturated vapors of liquid metals and their impurities investigated by the carrying gas method. Zav.lab. 28 no.10:1199-1203 62. (MIRA 15:10)

1. Institut metallurgii imeni A.A. Baykova.
(Liquid metals) (Vapor pressure)

BURTSEV, V.T.; MOLDAVSKIY, O.D.

Vacuum arc furnace for steelmaking. Biul.tekh.-ekon.inform.Gos. nauch.-issl.inst.nauch.i tekh.inform. no.2:3-6 '63. (MIRA 16:2)

(Electric furnaces)

S/032/63/029/003/020/020 B101/B186

AUTHOR:

Burtsev, V. T.

TITLE:

Conference on Experimental Techniques and High-temperature Measurements Methods

PERIODICAL: Zavodskaya laboratoriya, v. 29, no. 3, 1963, 380

TEXT: In 1962, the Vtoroye soveshchaniye po eksperimental noy tekhnike i metodam vysokotemperaturnykh izmereniy (Second Conference on Experimental Techniques and High-temperature Measurements Methods) was held at the Institut metallurgii im. A. A. Baykova (Institute of Metallurgy imeni A. A. Baykov). It was attended by 70 representatives of metallurgical works, of schools of higher education, and of scientific and industrial research institutes. Numerous lectures dealt with methods of temperature measurements by means of pyrometers, pickups of local heat currents, and different types of thermocouples. D. Ya. Svet lectured on new methods and systems of pyrometry, based on the spectral distribution of the radiation energy. S. K. Danishevskiy et al. reported on the development and practical use of thermocouples of tungsten-rhenium alloys in metallurgy which possess high thermo-emf and are heat-resistant up to 2500°C. Data Card 1/3

S/032/63/029/003/020/020 B101/B186

Conference on Experimental Techniques ...

on new temperature measurement methods, using sighting tubes, were disclosed. Several lectures dealt with methods and devices for measuring thermal and electrical conductivity and viscosity of molten metals and slags. B. M. Nikitin and N. M. Chuyko studied the conductivity of molten slag in the industrial furnace. V. I. Zhuchkov and A. S. Mikulinskiy described the measuring of the electric resistance of materials and charges. The sum of all factors influencing the resistence of charges were measured. Such new devices as an electromagnetic vibrational viscosimeter, a balance for continuous weighing in vacuo at high temperatures were described. Methods for studying the evaporation of sulfur from metals and the kinetics of the nitrogen liberation by means of a mass spectrometer were discussed. V. Y. Grigoryan and Yu. A. Minayev developed an experimental device for investigating the evaporation of sulfur in liquid slag. V. M. Amonenko et al. determined the steam pressure of high-melting metals by way of the evaporation rate from a cylindrical crucible. In another series, the kinetics of interaction between oxides and metal was dealt with. Data on phase diagrams of high-melting and high-reactive metals as well as on the systems Nb-Zr-Hf-C, Cr-Nb-Ti, and Cr-Si were given. There was a report by A. M. Samarin on a gas analysis

Card 2/3

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S/032/63/029/005/020/020 Conference on Experimental Techniques ... B101/B186

apparatus using a rarefied inert gas jet. The gas content of molten metals and zonal remelting, using an electron beam to remove gaseous impurities was discussed. E. N. Vitol' reported on the determination of oxygen in cerium, lanthanum, boron, zirconium and graphite by the isotope method.

Card 3/3

BURTSEV, V.T. (Moskva) KORBMAN, Yu.I. (Moskva); SAMARIN, A.M. (Moskva)

Kinetics of the removal of sulfur compounds during the vacuum treatment of iron-parbon melts. 1zv. AN SSSR Met. i gor. delono.3:58-62 My-Je¹64 (MIRA 17:7)

BURTSEV, V.T. (Moskva); KARASEV, R.A. (Moskva); POLYAKOV, A.Yu. (Moskva);

Investigatin, with the help of a mass-spectrometer, the products of the decarburization reaction during the smelting of iron in vacuum. Izv. AN SSSR. Met. no.1:55-58 Ja-F '65. (MIRA 18:5)

BURTSEV, V.T.; VERTMAN, A.A.; SAMARIN, A.M.; FILIPP, G.

Kinetics of gas liberation during the inoculation of liquid cast iron. Lit. proizv. no.3:25-27 Mr '65. (MIRA 18:6)

BURTSEV. V.T.; FILIPP, G.I.; POLYAKOV, A.Yu.; SAMARIN, A.M.

Studying the kinetics of gas liberation in the vacuum treatment of liquid iron. Zav. lab. 31 no.1:80-33 165.

(E:81 AHIM)

1. Institut metallurgii imeni Baykova.

BURTSEV, V.T. (Moskva); GIEBOVSKIY, V.G. (Moskva); POLYAKOV, A.Yu. (Moskva); SAMARIN, A.M. (Moskva)

Sulfur and oxygen distribution between iron and limestone-alumina slag during suspension smelting. Izv. AM SSSR. Met. no.6:24-27 N-D '65. (MIRA 19:1)

1. Submitted February 13, 1965.

BURTSEV, V.T.; GLEBOVSKIY, V.G.

Method for studying the distribution of impurities between the metal and the slag during melting in suspension. Zav. lab. 31 no.11:1352-1356 '65. (MIRA 19:1)

l. Institut metallurgii imeni Baykova, Moskva.

IJP(c) സ/ന EWT(m)/T/EWP(t)/ETI L 36118-66 SOURCE CODE: UR/0000/65/000/000/0087/0096 AT6016940 ACC NR: Filippy Go Iop Burtsev, V. Tos Polyakov, A. Yuos Samarin, A. M. 57 AUTHORS: None ORG: 21 Degassing of iron carbide melts in vacuum TITLES AN SSSR. Institut metallurgii. Protsessy vosstanovleniya i plavleniya SOURCES zheleza (Processes of reduction and melting of iron). Moscow, Izdovo Nauka, 1965, 87-96 TOPIC TAGS: Vacuum degassing, iron base alloy, gas kinetics, carbide /MKh-13-02 mass spectrophotometer

ABSTRACT: Quantity and composition of gases evolved during evacuation of iron carbide melts and subsequent decordation with silicon, manganese, and aluminum have been investigated. The amount of the evolved gases was determined at constant pressure by means of a rheometer, and the gaseous samples were analyzed on a mass spectrophotometer MKh-13-02. The diagrams of the experimental setup and vacuum induction furnace are shown, and the composition of the metal, specific gas evolution, and composition of the extracted gas are tabulated.

I 36118-66

AT6016940 ACC NR:

Specific gas evolution from iron carbide as function of the carbon content (and method of reduction are illustrated in Fig. 1. The kinetics of the removal of various gases under various conditions is also illustrated. Specific gas evolution from Fe-C-O melt at 1873K and 0.01--0.2 mm

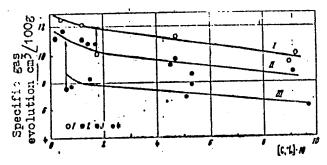


Fig. 1. Specific gas evolution of iron carbide melt at 1873C and 0.01-0.02mm, as function of carbon content and reduction: 1- no reduction; 2 - reduction with 0.4% Mn; 3 - reduction with 0.4% Mn + 0.2% Si: 4 - reduction with 0.4% Mn + 0.2% Si + 0.1% Al: (Time of gas sampling: I - at melting; II - in 5 min; III - in 10 min after melting.)

2/3

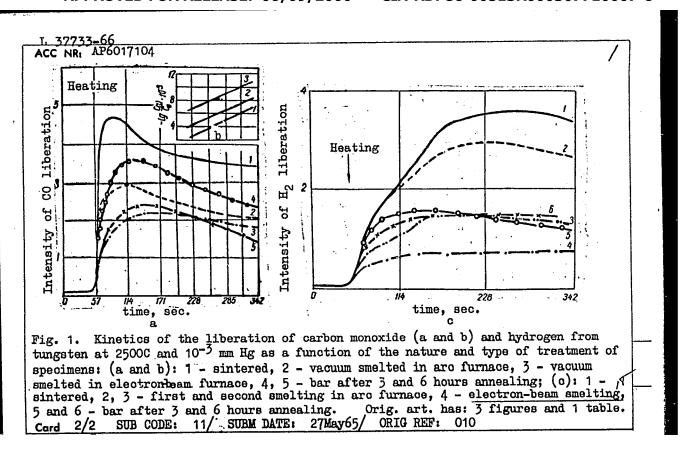
L 36118-66 ACC NR: AT6016940

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changes in the interval of C content 0.005-1.0% from 9.70 to 12.51 cm 3/100g, decreasing proportionally with an increased C content. Specific gas evolution of such melts deoxidized by Si, Mm, or Al is decreased 1.5 times. The rate of degassing of the metal melted in crucibles is 1.5 to 2 times higher than when it is melted in a suspension. Orig. art. has: 6 figures and 2 tables.

SUB CODE: 20/ SUBM DATE: 27 Sep 65/ ORIG REF: 008/ OTH REF: 002

L 37733-66 EWT(m)/EWP(k)/EWP(t)/EWP(e)/ETI IJP(c) JD/JG	
ACC NR. AP6017104 (A) SOURCE CODE: UR/0226/66/000/001/0050/0054	
AUTHORS: Burtsev, V. T.; Vasyukov, G. Kh.; Kashin, V. I.; Samarin, A. M.	
ORG: Institute of Metallurgy im. A. A. Baykov (Institut metallurgii)	
TITLE: Liberation of gas from tungsten at 25000	
SOURCE: Poroshkovaya metallurgiya, no. 1, 1966, 50-54	ę
TOPIC TAGS: tungsten, powder metal, powder metal compaction, powder metal sintering, Vacuum DEGASSING, CARGON MONOXIDE, HYDROGEN) ABSTRACT: The nature and quantity of gas liberated at 25000 from sintered and vacuum cast tungsten were determined by mass spectrometry. A schematic of the vacuum furnace and the experimental installation is presented. The detailed description of the experimental apparatus and procedure is given by V. T. Burtsev, Yu. I. Korbman, and A. M. Samarin (Izv. AN SSSR, Metallurgiya i gornoye delo, No. 3, 58, 1964). The experimental results are presented in graphs and tables (see Fig. 1). Vacuum smelting of tungsten by electron-beam techniques is the most efficient procedure for the removal of residual gases from the metal. It is suggested that sintered tungsten bars should be subjected to a preliminary degassing treatment in vacuum resistance furnaces.	,
1/2	



Burtsev, V.V.

133-2-3/19

AUTHORS: Suchkov, I.A. and Burtsev, V.Y. (Engineers)

TITLE: An Automatic Control of Gas Distribution in the Blast Furnace Stack (Avtomaticheskiy kontrol' garoraspredeleniya v shakhte domennoy pechi)

PERIODICAL: Stal', 1958, Nr 2, pp.110-113 (USSR)

ABSTRACT: The development of the apparatus for the control of the distribution of the gas stream along two perpendicular diameters in the furnace throat below the stock level carried out by KIP on the Kuznetsk Metallurgical Combine is described. Initially (1953) an automatic sampling and analysis of gas was carried out by gas sampling tubes which were periodically inserted with an electric winch into the furnace throat (Fig.1). This method was superceded in 1954 by building into the furnace a permanent water cooled probe with sampling tubes (Fig.2). Both methods were found to be impracticable due to blocking of the sampling tubes by dust and erroneous operation of automatic gas analyzers. In 1956 a scheme of controlling gas distribution along two throat diameters was based on temperature measurements. Four water cooled probes containing a thermocouple traverse the furnace throat from the wall to the centre giving a continuous temperature record across two perpendicular dia-

Card 1/2

133-2-3/19

An Automatic Control of Gas Distribution in the Blast Furnace .- ack.

meters. The scheme is described in some detail (Fig.3). Electrical circuit is shown in Fig.4 and a sample of the record obtained in Fig.5. The probes are moved into and out of the furnace with electrical winches. Time of measuring traverse - 7 min. When the measuring is completed thermocouples are withdrawn into the furnace lining. The scheme operates either fully or semiautomatically, its operation was found to be satisfactory and it is recommended for use in other works. The following participated in the design of the apparatus: Dolganeva and Khlebnikova. There are 5 figures and 5 references, all Russian.

ASSOCIATION: Kuznetsk/Metallurgical Combine (Kuznetskiy Metallurgicheskiy Kombinat).

AVAILABLE: Library of Congress.

Card 2/2

BURLO, YJ.A.; BULTSEV, V.V.

Automatic control of blast larmace air preheaters. Stal! 20 no.6: 491-495 Je '60. (MIRA 14:2)

1. Kuznetskiy metallurgicheskiy kombinat.
(Air prohoatura) (Autematic control)

BURTSEV, V.V.; RAYEV, Yu.O.

Arrangement for the blast distribution in the furnace tuyeres.
Metallurg 7 no.4:9-10 Ap '62. (MIRA 15:3)

1. Nachal'nik tekhnicheskogo byuro tsekha konstrol'no-izmeritel'nykh priborov i avtomatiki (for Burtsev). 2. Nachal'nik uchastka domennogo tsekha Kuznetskogo metallurgicheskogo kombinata (for Rayev).

(Blast furnaces--Equipment and supplies)

YAKOVLEV, P.D.; BURTSEV, V.V.

Characteristics of the structure of beryllium deposits. Geol. rud. mestorozh. 6 no.1:51-68 Ja-F 164.

(MIRA 17:11)

1. Kafedra geologii i mestorozhdeniy poleznykh iskopayemykh Moskovskogo instituta stali i splavov.

MUZALEVSKIY, O.G., kand. tekhn. nauk; BURTSEV, V.V., inzh.

Effect of roll stoppage on the distribution of metal deformation in the zone of reduction during rolling. Stal' 25 no.8:828-830 S '65. (MIRA 18:9)

1. TSentralinyy nauchno-isaledovateliskiy institut chernoy metallurgii.

YAKOVLEV, P.O.; BURTSEV, V.V.; SOLODOVA, L.P.

Structural conditions for the localization of beryllium mineralization in scarms. Izv.vys.ucheb.zav.; tsvet.mat. 8 no.283-7 *65. (MIRA 1981)

1. Kafedra geologii i mestorozhdeniy poleznykh iskopayemykh Moskovskogo geologorazvedechnogo instituta. Submitted March 5, 1964.

BURTSEV, V. Ya.

AID P - 2906

Subject

: USSR/Electricity

Card 1/2

Pub. 26 - 3/32

Authors

: Burtsev, V. Ya. and Pavlenko, L. I., Engs., and B. P. Kukovanov, Kand. Tech. Sci.

Title

: Combustion of pulverized Donets anthracite culm in furnaces with inclined-horizontal sole

Periodical: Elek.sta, 7, 9-13, J1 1955

Abstract

: The article reports on experiments in operating furnaces with a simplified system of liquid slag removal. Data on boilers, waterwalls, economizers and other equipment used for this experiment are given. The operation of furnaces is explained in detail. Some recommendations, i.e. the use of refractory bricks for the sole, uninterrupted liquid removal of slag, etc. are made. Five

diagrams, 1 table.

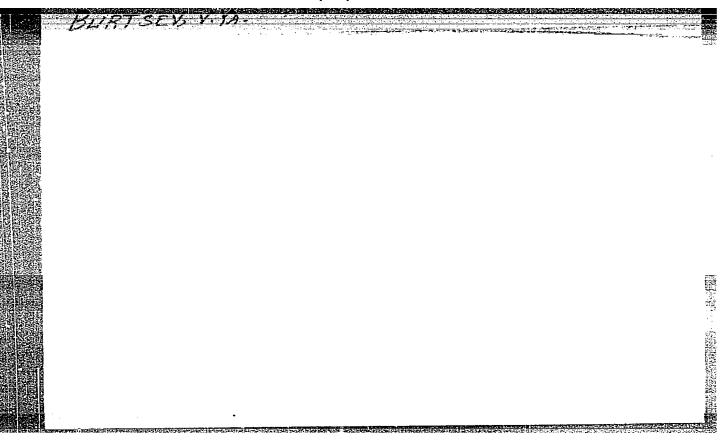
Elek.sta., 7, 9-13, J1 1955

AID P - 2906

Card 2/2 Pub. 26 - 3/32

' Institution : None

Submitted : No date



Reflective beta-ray thickness gauge (MOTOP-3A) for precipitated coal dust for use in mines. Atom. energ. 11 no.3:282-284 S '61. (MIRA 14:9)

(Coal mines and mining--Safety measures)
(Mine dusts)

BURTSEV, Ye.F., inzh.

New safety devices. Bezop.truda v prom. 6 no.7:13-17 J1 162. (MIRA 15:7)

1. Khar kovskiy zavod marksheyderskikh instrumentov. (Mining engineering—Safety appliances)

SILINSKIY, P.P., otv.red.; BURTSEV, Ye.G., red.; GAVRILOV, M.K., red.; MALYSHEV, R.P., red.; CHUYKO, K.V., red.; SHOTSKIY, V.P., red.; FRIDMAN, V.G., red.; SOROKINA, T.I., tekhn.red.

[Irkutsk Province; a concise manual of its economy and statistics]
Irkutskela oblast; kratkii ekonom-statisticheskii sbornik.
Irkutskee knishnee isd-vo. 1958. 165 p. (MIRA 12:4)

1. Akademiya nauk SSSR. Vostochno-Sibirskiy filial, Irkutsk. (Irkutsk Province--Statistics)

BURTSEV, Yu.A., kand.sel'skokhozyaystvennykh nauk

Developing makhorka varieties with few suckers. Agrobiologiia no. 3:345-349 My-Je '60. (MIRA 13:12)

1. Ukrainskaya opytnaya stantsiya po tabaku i makhorke, Simferopol'. (Tobacco breeding)

BURTSEV, Ye. F., inzh.-mekhanik

Instruments for coal mines. Ugol[†] Ukr. 6 no.10:36-38 0 [†]62. (MIRA 15:10)

(Coal mines and mining—Equipment and supplies)

ZOTOV, V.P.; SILUYANOV, V.G.; GUGINA, Ye.F.; AUERMAN, L.Ya.; ALEKHINA, M.S.; BEZZUBOV, A.D.; BODROV, V.A.; BUDNYY, A.V.; BURTSEV, Ye.L.; VAYNSHTEYN, V.O.; GAVRILOV, A.N.; GORBATOV, V.M.; GRITSENKO, N.N.; DOLGUSHEVA, L.I.; YEDYGENOV, K.Ye.; ZHURAVLEVA. S.S.; ZACHESKIN. Ya.A.; IVKIN, A.P.; IZOTOV, A.K.; IL'INSKIY, N.A.; IRINARKHOVA, A.M.; KARPENKO, A.K.; LYSOGOR, P.M.; LUPISH, A.T.; OLEYNIKOV, V.V.; ORANZHEREYEVA; V.F.; PETROV, N.A.; PYATIBRATOV, M.A.; ROMANOV, A.N.; RAUBE, P.V.; RYZHENKO, L.P.; SEMYKIN, A.A.; SHEFER, A.P.

G.IA.Ivanov; obituary. NTO 4 no.10:39 0 '62. (MIRA 15:9) (Ivanov, Georgii IAkovlevich, 1897-1962)

BURTSEV, Ya. H.

Psychotherapy in the practical work of a district hospital doctor. Sov. med. 28 no.6:92-94 Je '65. (MIRA 18:8)

1. Khotiml'skaya uchastkovaya bol'nitsa (glavnyy vrzen rayona D.G. Balov) Palekhakogo rayona Ivanovskoy oblasti.

NALIVAYKO, V.I.; BURTSEV, Yu.A.; MANSUROVA, L.G.

Proton magnitometer for observatories. Geofiz. prib. no.9:75-86 '61. (MIRA 15:11) (Magnetometer)

BURTSEV, Yu.A.

Using the PM-1 proton magnetometer in highly accurate geomagnetic measurements. Geomag. i aer. 2 no.5:998-1000 S-0 '62.

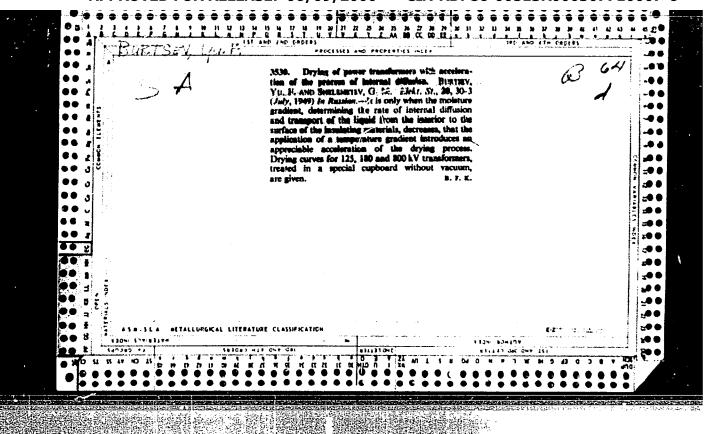
(MIRA 15:10)

1. Institut zemnogo magnetizmam ionosfery i rasprostraneniya radiovoln AN SSSR.

BURTSEV, Yu.A., kand. sel'skokhoz. nauk; BURTSEVA, G.Yu.

Developing makhorka varieties without suckers. Agrobiologiia no.2:284-286 Mr-Ap '65. (MIRA 18:11)

1. Ukrainskaya opytnaya stantsiya po tabaku i makhorke, g. Priluki.



5/062/61/000/011/011/012 B103/B147

11.2121

AUTHORS:

Ravich, G. B., and Burtsev, Yu. N.

TITLE:

Thermal conductivity of 2, 4, 6-trinitrotoluene in solid and

liquid state

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 11, 1961, 2091 - 2092

TEXT: The thermal conductivity of 2, 4, 6-trinitrotoluene in solid and liquid state was studied from 10 to 96° C. An apparatus (Fig. 2) was used, which is based on the relative measurement of thermal conductivity of a thin layer of the substance at a steady heat flow. The apparatus allowed the study of very small quantities (-, 1 - 1.5 g). Blocks (1) and (3) are kept by thermostats at different temperatures so that a constant temperature difference is obtained between the two surfaces of a 0.5 - 1 mm layer. The small thickness and heating from above prevented convection. Due to special protective rings (5) and (6) the maximum heat losses are 190, the measuring error does not exceed 2%. The standard substances of wellknown heat conductivity were: water, glycerin, and air. The results Card 1/4 2

29524 \$/052/61/000/011/011/012 B103/B147

Thermal conductivity of ...

are shown in Fig. 1 which contains also data of Ref. 3 (see below), of A. F. Belyayev, N. B. Matyushko (Ref. 4, Dokl. AN SSSR, 50, No. 7, 624 (1941)) and of Ref. 2 (see below). The data of Refs. 3 and 4 agree well with those of the authors within the limits of experimental error. The values found by the authors are much higher than those of Ref. 2. Here, differences up to 200% are established for the thermal-conductivity data of trotyl. This is thought to be due to a systematic error. A sharp decrease of thermal conductivity of solid trotyl in the neighbourhood of the melting point was observed only when the thermal conductivity of a double layer consisting of fused and solid substance was measured. There are 2 figures and 7 references: 4 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: Ref. 2:

J. H. Read, D. M. Lloyd, Trans. Faraday Soc., N 309, 9, 720 (1948); Ref. 3:

A. M. Prentiss, Rept. and Circ. of the Nat. Research Council, No. 52, 44 S.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov of the Academy of Sciences USSR)

Card 2/4 2

21980

/s/000/61/137/005/004/006 B101/B203

5.4700(1273,1320,1043)
THORS: Ravich, G. B. and Burtsey, Tu. II.

TITLD:

Effect of polymorphism on thermal conductivity

PERIODICAL:

Doklady Akademii nauk SSSR, v. 157, no. 5, 1961, 1155-1157

TEXT: The authors studied reversible and irreversible transitions of modifications of polymorphous substances. To study the effect of polymorphous morphism on thermal conductivity, an apparatus was designed (Fig. 1) whose maximum error of measurement was 2%. It consists of the cyainder 1 (inside diameter 3-4 mm), the funnel tube 2, the four-enamel capillary tube (outside diameter 1.5-2.0 mm) which is centrally inserted in 1 by means of the Teflon stopper 3, and contains the copper-constantan thermocouple 5 (diameter 0.10 mm) and the nichrome heater 6 (diameter 0.10 mm). The cylinder 1 is surrounded by two jackets 7 and 8, through which liquid flows from a Wobser thermostat; the temperature of the liquid is measured by thermocouple 9 in the capillary tube 10. The apparatus is closed by a cover 11. The socket 12 with cock 13 is connected to the vacuum pump. 5 and 9 are connected in such a way that both Card 1/5

21980

Effect of volymorphism on thermal ...

\$/020/61/137/005/024/026 \$101/\$203

the temperature on the walls of 4 and 1 and the temperature difference can be measured. A FATE -1 (PPTN-1) potentiometer is used for measuring. If heater 6 is fed with constant amperage, the wall of ! remains at constant temperature, and the temperature difference between 4 and 1 only depends on the thermal conductivity / if the intermediate substance: $t_1 - t_2 = (l \ln(d_2/d_1)/12\pi)$, where Q is the heat amount emitted from the heater per unit time, 1 is the length of the capillary tube 4, t_1 is the temperature of 4, to that of 1, do the diameter of 1, do the diameter of 4. The apparatus was calibrated with substances whose 🐇 was exactly known, such as water, glycerin, toluene, air. On the basis of the calibration curves $\Delta t = f(x)$, the unknown x of other substances was determined. In the present study, the \wedge of p-dichlorobenzene was measured between -40 and +9800. The substance was molten in cylinder 1, and the a of the melt was determined (Fig. 2, curve I). Then, the substance was slowly or quickly crystallized, and the determined for the various solid phases. Two stable modifications were found: a (Curve IV) with $\Lambda = (29 - 35) \cdot 10^{-5}$ cal/cm.sec.degr, and β (Curve III) with Card 2/5

X

21980 9/020/61/137/005/024/026 B101/B203

Effect of polymorphism on thermal ...

 $\lambda = (37 - 40) \cdot 10^{-5}$ cal/cm.sec.degr. The transition temperature for $\alpha \rightleftharpoons \beta$ lies at $\sim 32^{\circ}\text{C}$. α can be overheated to 40°C by quick heating, β can be undercooled to 30°C by quick cooling. Besides, metastable modifications were found. β (Curve II) is formed by quick cooling; it

exists between +32 and +53°C, λ = (63 - 70)·10⁻⁵ cal/cm.sec.degr. This modification passes over to β after 4-5 days. There may be other, briefly existing, metastable forms between β and $\beta^{\, 1}$. The transition $\beta \longrightarrow \alpha$ occurs

via the metastable form α' (Curve V), $\lambda = (35 - 39) \cdot 10^{-5}$ cal/cm.sec.degr. There are 2 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The reference to the English-language publication reads as follows: G. A. Jeffrey, W. J. McVeagh, J. Chem. Phys., 23, no. 6, 1165 (1955).

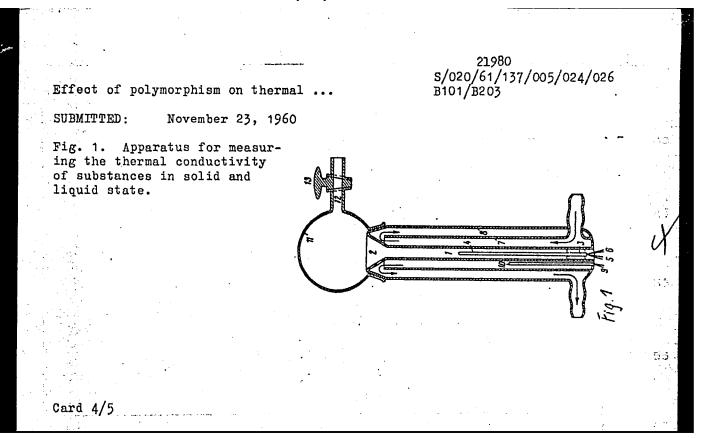
ASSOCIATION:

Institut obshchey i neorganicheskoy khimii im. N. S. Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N. S. Kurnakov, Academy of Sciences USSR)

PRESENTED:

November 25, 1960, by I. V. Tananayev, Academician

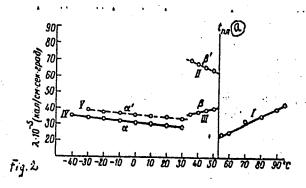
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Effect of polymorphism on thermal ...

21980 S/020/61/137/005/024/026 B101/B203

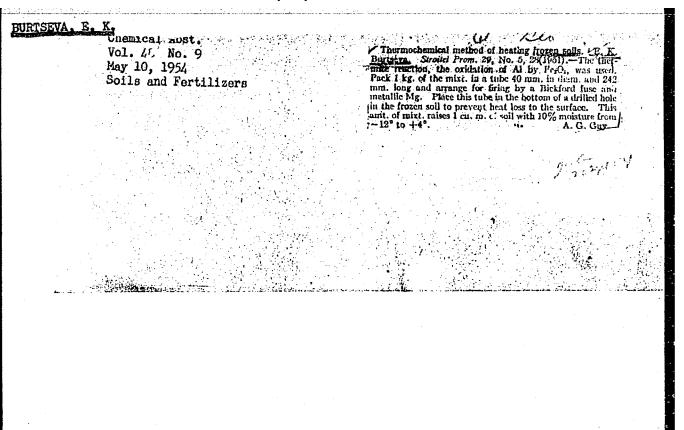
Fig. 2. Thermal conductivity of p-dichlorobenzene. Legend: (a) melting point.



Card 5/5

- 1. BURTSEVA. A.
- 2. USSR (600)
- 4. Adult Education
- 7. Help young student workers daily, V Pom.profaktivu 3 no. 10, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Unclassified.



BURTSEVA, G.Ye.; SHATELEN, M.A., chlen-korrespondent.

Certain advantages of consolidation of power systems having both thermo- and hydroelectric power plants. Izv.AN SSSR Otd.tekh.nauk no.9:1282-1287 S '53. (MIRA 6:10)

1. Akademiya nauk SSSR (for Shatelen).
(Electric power distribution) (Hydroelectric power stations)

Buk	etseud, C. Ye.														·					
	Degter, O.f. Conditions for Representing Reating Systems With Flame Burning of Puel Riconol'skiv. J.L., K.A. Styrtkovich, K. Ye. Shitsaan. Best Trans-	Teshchenhorn, H.L. Investigation of the Structure of an Arially- practicle Supersonic Stream in a Vacuum	Leontlyry, b,L. Calculation of Turbulent Priction in the Flow of a Compressed Cas Around a Flat Flate			f Static Stability of Excitation	Matyukhin, W.M. On the Laudficiency of the Method of the Equivalent Commission for the Investigation of Stability of Electric Transmission with Small Disturbances	Corunhin, T.L. Effect of Forcing and Requisting Excitation on the Dynamic Stability of Long-Distance Transmissions	Libring, M.S., Static Confensors for Transverse Companaation of Long- Distance A-c Transatesions	(Emmilia, I.I. Investigation of the Emergy Malesce of an Electric Effection (Ed. Barborich, I.M., S.A. Sornlow, Extremely Long-Distance Transmissions of 800 fe	Licatio		Sabarda, A.S. Methods of Determining Technical-Recognic Indices of Mark Electrical Retworks	Exchaplor J.L. Some Special Features of Postwar Development in Force: Engineering in the U.S.A.	computer the collection contains sixty articles by former entained and communication described handerdama. The articles deal with problems of a wide range of subjects in the field of power explanation; problems of the regional development of electrical sai thermal power explorefully, power engineering technology, and the hypitus of curburtion. So personality are mentioned, inferences are given after most articles.	FUNCE: This collection of articles is intended as a tribute to the of Academician G.M. Erthithmorphity.	Mis. of Publishing House: B.D. Antruchin, P.Y. Dubboy, P.Z. Eubboy, and B.M. Keynhas; Yock. Ed.; T.A. Francom; Elitorial Boarti, A.Y. Virter, handwaldan (Decamed), Y.L. Popur (Rapp. El.) Carresponding Member, Landsway of Sciences EER, V.I. Voyts, A.B. Frienditeler, N.A. Synthorick, E.F. Chmimnor, E.S. Beginnors, Candidate of Publical Edisons, B.E. Endow, Candidate of Technical Edizons, N.K. Inbett, Candidate of Technical Edizons, and I.E. Smithior.	Problemy energetiki; sbornik posymahuhaystsym akademiku d.M. Krahizhanovskomu (Problems of Prest Englisoring; Collection of Articles Dedicated to Academic Articles Conference (Problems of Articles Dedicated to Academic Articles Collection), Noncore, 1899, 891 p. Errota silp inserted. 2,500 copies printed.	Abademiya nauk 5552, Ebergeticheskiy institut in, G.M. Krahishanorskingo	PRACE I DOER EXCENDED TO SON/SHOT
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BOLOTOV, V.V., doktor tekhn.nauk (Leningrad); BURTSEVA, G.Ye., kand.tekhn.nauk (Leningrad); ZAKHAROVA, Ye.P., inzh. (Leningrad)

Taking the intersystem effect into account when designing large power transmission systems. Elektrichestvo no.8:16-22 Ag '60. (MIRA 13:8)

(Electric power distribution)

BURTSEVA, G.Ye.

Methodology for determining the economic efficiency of shunting electric power transmission systems. Sbor, rab. po vop. elektromekh.no. 8x18-25 *63.

(MIRA 16:5)

(Exercis power distribution)

BURTSEVA, G.Ye.; ZAKHAROVA, Ye.P.

Prospects of the development of large intersystem power transmission networks. Shor. rab. po vop. elektromekh. no.10: 3-15 '63. (MIRA 17:8)

BURTSEV, Yu.A., kand. sel'skokhoz. nauk; BURTSEVA, G.Yu.

Developing makhorka varieties without suckers. Agrobiologiia no.2:284-286 Mr-Ap '65. (MIRA 18:11)

1. Ukrainskaya opytnaya stantsiya po tabaku i makhorke, g. Priluki.

5 (4) AUTHORS:

Krasil'shchikov, A. I., Volchkova, SOV/20-125-6-31/61 L. M., Burtseva, I. K., Plyasunov, V. D.

TITLE:

On the Mechanism of the Intercrystalline Corrosion of Stainless Steel in Nitric Acid (O mekhanizme mezhkristallitnoy korrozii nerzhaveyushchey stali v azotnoy kislote)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 6, pp 1285-1287 (USSR)

ABSTRACT:

The authors prove that a current of differential depolarization flows between two electrodes made from stainless steel (Fig 1). The electrode located in the more diluted acid is dissolved anodically. Similar currents may occur in microcracks, in which the concentration of the nitric acid decreases due to corrosion reaction, whereas the outer surface acts as a cathode with acid concentration remaining constant. Corrosion is considerably increased only by the chromium oxidized to an anion by nitric acid, but it is just chromium that is a component of stainless steels. The character of the corrosion depends on the ratio between the current i of differential

Card 1/2

depolarization and the general current i2 of the corroding

On the Mechanism of the Intercrystalline Corrosion of Stainless Steel in Nitric Acid

SOV/20-125-6-31/61

dissolution. At $i_1 > i_2$ corrosion is intercrystalline, at $i_2 > i_1$ uniform corrosion takes place. There are 2 figures and 4 references, 2 of which are Soviet.

PRESENTED:

January 22, 1959, by A. M. Frumkin, Academician

SUBMITTED:

January 22, 1959

Card 2/2

S/076/62/036/012/004/014 B101/B180

AUTHORS:

Burtseva, I. K., Plyasunov, V. D., and Krasil'shchikov, A. I.

TITLE:

Passivity and intercrystalline corrosion of stainless steel in nitric acid

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 12, 1962, 2687 - 2692

TEXT: The passivity of stainless steels X 17-T(Kh17-T) and X1-T(Ya1-T) in 0.5 - 56% HNO₃ was tested at 60°C and an anodic polarization current density of 1 Ma/2m², with other conditions varying. Results: In Ya1-T, is not affected by the anode current above concentration and passivation difference in the potentials of steel specimens which have been completely, 56% acid. The polarization current density, however, is higher in concentrated acid, reaching 0.5 Ma/cm² in 56% HNO₃. The potential is more positive for a completely immersed than a half-immersed specimen. A

Passivity and intercrystalline ...

\$/076/62/036/012/004/014 B101/B180

current of differential depolarization occurs between specimens of the same steel which have been immersed in acids of different concentrations, the one dipped in the diluter acid acting as anode. The current density reaches $0.5 - 1.0 \,\mu\text{a}/\text{cm}^2$ and intercrystalline corrosion occurs. From this it is concluded that the surface inside a microcrack filled with air will also act as anode, and initiate intercrystalline corrosion. The corrosion reduces the acid concentration in the crack and the depolarization current takes effect. The damaging effect of precipitated carbides lies not in the fact that they bind the chromium but in that they may become depassivation centres. There are 7 figures.

ASSOCIATION: Gosudarstvennyy institut azotnoy promyshlennosti (State Institute of the Nitrogen Industry)

SUBMITTED:

May 30, 1961

Card 2/2

2 16919-63 EWP(q)/EWT(m)/BDS AFFTC/ASD Pad JD/HW/JG/WB S/076/63/037/004/009/029 62
AUTHOR: Burtseva, I. K., Krasil'shchikov, A. I.

Burcseva, 1. K., Krasil'snchikov, A. I.

TITLE: Passivity and intercrystalline corrosion of stainless steel in nitric acid.

PERIODICAL: Zhurnal fizicheskoy khimii, V. 37, No. 4, 1963, 810-816

TEXT: The article is devoted primarily to an explanation of the role of carbides in intercrystalline corrosion of stainless steel which at the present time is a matter of heightened interest. An investigation is made of the effect of carbides on the differential depolarization current and also on the phenomena of the repassivization of stainless steel. A partially immersed stainless steel specimen is passivated with greater difficulty but is more easily overpassivated than a completely immersed specimen. The passivation is hindered and overpassivation promoted by the precipitated chromium carbides. Precipitation of chromium carbides considerably augments the differential depolarization currents on the stainless steel in the nitric acid and also the current density between the differently immersed specimens. This leads to a sharp increase in the intercrystalline corrosion of the stainless steel which is induced by the carbide precipitation. The explanation of the ability of the precipitated chromium carbides to

Card 1/2

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Passivity and intercrystalline corrosion of ...

intensify the intercrystalline corrosion of stainless steel in mitric acid lies in the fact that they are electron donors, possess reducing properties, and are unique centers of the depassifization of stainless steel. There are 7 figures.

ASSOCIATION: Nauchno-issledovatel skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza (Scientific Research and Design Institute of the Nitrogen Industry and of Products of Organic Synthesis)

SUBMITTED:

April 3, 1962

Card 2/2

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nvestigated stainless steels at 60C in the course of 1500 km runs and 1500 km runs

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conformium carbides facilitates overpassivation and initiation of intercrystalling coin, slow. Originary, has: 3 tables and 6 figures.

ASSOCIATION: Gosudarstvenny*y institut azotnoy promyshlennosti (State Institute of the Nitrogen Industry)

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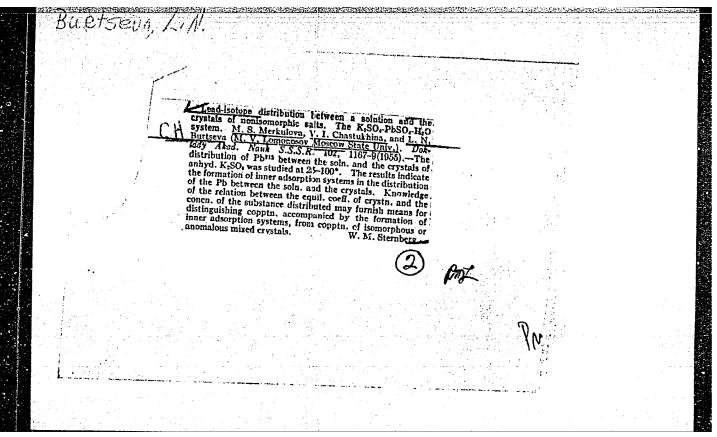
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BURTSEVA, K.V., kand.med.nauk

E3847 E55 E55

Subcutaneous rupture of the retroperitoneal part of the duodenum. Sov.med. 23 no.11:143-145 N '59. (MIRA 13:3)

1. Iz Lipetskoy oblastnoy bol'nitsy No.1 (glavnyy vrach F.D. Boronin). (DUODENUM wds. & inj.)



BURTSEVA, L.N.; LEVIN, V.I.; GOLUTVINA, M.M.; BUBNOV, V.S.

Separation of radioactive manganese without a carrier from deuteron irradiated chromium. Radiokhimiia 1 no.2:231-235

'59. (MIRA 12:8)

(Manganese--Isotopes) (Chromium) (Deuterons)

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Ash composition of petroleum in the Terek-Daghestan region. Trudy VNIGRI no.83:332-354 '55. (MLRA 8:10) (Daghestan-Petroleum-Amalysis) (Terek Range-Petroleum-

Analysis)

BURTSEVA, N.P.; SILINA, N.P.

Technique for separating light bitumen fractions from rocks. trudy VNIGRI no.174:262-270 '61. (MIRA 14:12' (Bitumen) (Rocks-Analysis)

5 (3) AUTHORS:

Kuskov, V. K., Burtseva, T. A.

SOV/20-125-4-33/74

TITLE:

Production of Alkyl Phenols by Alkylation of Triphenyl Borate (Polucheniye alkilfenolov alkilirovaniyem trifenilborata)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 4, pp 811-813

(USSR)

ABSTRACT:

The alkylation of phenol by alkyl halides (according to Fridel-Krafts) is possible without any difficulties only with reactive tertiary alkyl halides. In the case of primary and secondary alkyl halides it is possible that the alkylation is complicated by the reaction of aluminum chloride with phenol in heat. In the present paper the authors found that triphenyl borate is easily alkylated in the presence of catalytic amounts of aluminum chloride by alkyl halides (see equation). However, it is not necessary that all 3 phenyl groups are alkylated. Apart from alkyl phenols always dialkyl phenols and phenol have been produced. All products are soluble in 10% NaOH. The reaction proceeds successfully under normal conditions. After the alkylation had been finished the mixture was poured into ice water. The hydrolysis of aluminum chloride and aryl borates

Card 1/2

Production of Alkyl Phenols by Alkylation of Triphenyl Borate

SOV/20-125-4-33/74

took place. In this connection mainly para-substituted alkyl phenols form and a usual isomerization of the primary alkyl to a secondary. Table 1 shows the production of phenols by alkylation of triphenyl borate by alkyl halides. The following experimental part provides the usual data. There are 1 tables and 11 references, 3 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED:

December 26, 1958, by S. I. Vol'fkovich, Academician

SUBMITTED:

October 16, 1958

Card 2/2

BURTSEVA, T.A.

Simplifying the methods and reducing the amount of materials used in the estimation of coal reserves, Mat.GKZ no.2:65-70 *61. (MIRA 16:3) (Coal geology)

S/204/61/001/005/001/008 E075/E484

AUTHORS: Plate, A.F., Nikitina, Z.K., Burtseva, T.A.

TITLE: Catalytic conversions of endo-trimethylene-norbornane

on alumino-silicate. Formation of adamantane

PERIODICAL: Neftekhimiya, v.l., no.5, 1961, 599-603

A laboratory preparation of adamantane from endotrimethylene-bornornane (fully hydrogenated dimer of cyclopentadiene) (I) was carried out in a quartz tube reactor and in autoclave. In the first method the alumino-silicate catalyst activated by cyclohexane was contacted with (I) for 42 minutes at 400 to 475°C. After distilling off naphthenes and paraffins and separating aromatic hydrocarbons by silica gel from the catalysate, adamantane was isolated from the residue by filtration and recrystallization in 13% yield. In the autoclave method the catalyst and I (1:5) were heated at 350 to 380°C for 6.5 to 16.5 hours giving 9 to 10% adamantane. The results suggest that adamantane was formed in crude oils by isomerization of naturally occurring terpene compounds under the action of natural aluminosilicates。 Although adamantane is the main product of the Card 1/3

Catalytic conversions ...

S/204/61/001/005/001/008 E075/E484

conversions, considerable quantities of by-products are also formed. These are: paraffins, mono- and bicyclic naphthene and aromatic hydrocarbons. Proportion of the latter in the catalysate increases markedly with increasing temperature of Thus, 34.2% of alicyclic hydrocarbons (including conversion. adamantane) were obtained at 400°C and 15.8% at 475°C, whilst 21.1% of aromatic hydrocarbons were formed at 400°C and 39.1% at Cracking intensifies with increasing temperature, the concentration of butanes in the gaseous products being 44% at 400°C The amount of coke on the catalyst remains and only 10% at 475°C. approximately the same, i.e. 6 to 6.4%. It was noted that a /760 mm was obtained from the catalysate after runs at 400°C and after separation of aromatic and hexahydroaromatic hydrocarbons. It is possible that this fraction contains pentalane. Acknowledgments are expressed to D.A.Kondrat yev, I.P.Yakovlev and Yu.P. Yegorov for their assistance in the investigations carried out at the Institut organicheskoy khimii im, N.D.Zelinskogo (Institute of Organic Chemistry imeni N.D.Zelinskiy). Card 2/3

Catalytic conversions ...

S/204/61/001/005/001/008 E075/E484

S. Landa and S. Hala are mentioned in the article in connection with their contribution in this field. There are 2 tables and 8 references: 5 Soviet-bloc and 3 non-Soviet-bloc. The references to English language publications read as follows: Ref.4: P. v. Schleyer. J. Amer. Chem. Soc., v.79, 1957, 3292; Ref.5: P. v. Schleyer, M.M.Donaldson. J. Amer. Chem. Soc., v.82, 1960, 4645.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im.

M.V.Lomonosova Kafedra khimii nefti

(Moscow State University imeni M.V.Lomonosov

Petrochemistry Department)

SUBMITTED: July 8, 1961

Card 3/3

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     ACCESSION NR: AF5011688
                                                                                                                                                                                                                                                                                                                                                                                               AUTHOR: Burtseva, T. A.; Vinogradova, I. E.; Plate, A. F.;
Danilova, T. A.
      Title Dit a thiones: sulfur-containing additives to lubrication
      oils
     SOURCE: Khimiya i tekhnologiya topliv i masal, no. 5, 1965, 34-36
      TOPIC TAGS: diathiacyclopentenethione, additive, lubricating oil,
      EP agent, antiwear agent/NPT
       ABSTRACT: Two 4,5-dithiacyclo-2-pentenethiones with different suc-
       stituents have been synthesized and tested as lubrilating will an ourse.
        in the control of the section of the
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        your out, which provides a contractor at a first to be
       Pulsus) Tests in To-14/1 oil showed that William of
        effective antiscizing sulfur-containing additives .
   Card 1/2
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L 441' 3-65 ACCESSION NR: AP5011688 NPT caused greater wear than the LZ-6/9 additive at low loads, this drawback could be considerably alleviated by using NPT in conjunction with antiwear additives such as zinc dithiophosphate. NFT exhibited high thermal stability as it did not decompose in the presence or the absence of metal powders or react with them at 20-300c. NPT was also an antioxidatant (in MK+8 oil), but a lenc effective one than iono... NPT passed copper corrosion tests at 100C. It was concluded that SPT is a suitable difunctional (antiseizing and antiwear) additive to lubricating oils and its production was recommended, Orig. art. has: 2 tables, and 5 formulas. ASSOCIATION: MGU im. M. V. Lomonosova; VNII NP SUB CODE: FF ENCL: 00 SUBMITTED: 00 ATD PRESS: 3241 OTHER: 004 NO REF 30V: 002 伊丁的 Card 2/2

Hurtseva, T. I.	
USSR/Geology	
Card 1/1	
Authors	Burtseva, T. I.
Title	The stratigraphy of lower-Cambrian deposits of the Irkutsk cirque according to data of a mineral-petrographic analysis
Periodical	Dokl. AN SSSR, 96, Ed. 2, 363 - 366, May 1954
Abstract	complex petrographic investigations of lower-Cambrian rocks extracted from layers of various parts of the Irkutsk cirque enabled one to observe the fixed laws regarding the distribution
	of correlating mineral associations which are found repeatedly in widely separated sections. This made it possible to consider the separated correlated mineral associations as stratigraphic and to use this as a basis in preparing a stratigraphic chart of the low-Cambrian deposits of the Irkutsk cirque which will be different from the previously prepared charts. Four USSR references, 1 since 1933.
Institution	Academy of Sciences, USSR, Petroleum Institute
Presented by	Academician V. A. Obruchev, March 8, 1954

BURTSEVA, T. I.

Mineralogical correlatives to cross sections of Oligocene and Miocene deposits of southern Kartlia (Georgian S.S.R.) Trudy Inst.nefti.no.5:49-56 '55. (MIRA 8:12) (Kartlia--Geology, Stratigraphic)

BURTSEVA, T.I.; ZHURAVLEVA, I.T.

A first discovery of Archaeocyathidae in the Irkutsk amphitheater. Dokl.AN SSSR 106 no.5:885-888 F 56. (MLRA 9:7)

1.Paleontologicheskiy institut Akademii nauk SSSR. Predstavleno akademikom S.I.Mironovym. (Irkutsk Province--Archaeocyathidae)

BURTSEVA, T. I., Candidate Geolog-Mineralog Sci (diss) -- "The lithology and stratigraphy of the Ushakov and Motskiy strata of the Lower Cambrian in the Irkutsk amphitheater, based on data from mineralogical-petrographic analysis".

Moscow, 1959. 15 pp (Acad Sci USSR, Inst of Geology and Working of Mineral Fuels)

(KL, No 25, 1959, 129)

BURTSEVA, T.I.

Stratigraphy and lithology of terrigenous sediments in the lower Cambrian of the middle Uda Valley (Eastern Sayan Mountain region). Trudy Inst. geol. i razrab. gor. iskop. 1:77-102 '60.

(NIRA 14:1)

(Uda Valley-Geology, Stratigraphic)